

<p>Substitute for form 1449A/PTO</p> <h1 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h1> <p><i>(use as many sheets as necessary)</i></p>				<i>Complete if known</i>	
Sheet	1	of	2	Application Number	10/521,524
				I.A. Filing Date	16 July 2003
				First Named Inventor	Caroline Hoermann
				Art Unit	To be assigned
				Examiner Name	To be assigned
				Attorney Docket Number	701826-56360

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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of

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*Complete if known*

Application Number	10/521,524
I.A. Filing Date	16 July 2003
First Named Inventor	Caroline Hoemann
Art Unit	To be assigned
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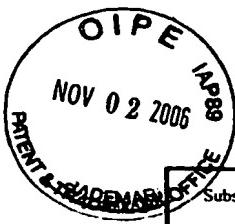
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Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/RAD/	C1	CAPITANI, D. et al.; Carbohydrate Polymers; 45:245-252 (2001)	
/RAD/	C2	DE ANGELIS, A.A. et al.; Macromolecules; 31:1595-1601 (1998)	
/RAD/	C3	HSIJEN, T.Y. and RORRER G.L.; Ind. Eng. Chem. Res.; 36:3631-3638 (1997)	
/RAD/	C4	KUMBAR S.G. et al.; J. Microencapsulation; 19(2):173-180 (2002)	
/RAD/	C5	LI, J. et al.; Journal of Pharmaceutical Sciences; 91(7):1669-1677 (2002)	
/RAD/	C6	MI, F.-L. et al.; Biomaterials; 23:181-191 (2002)	
/RAD/	C7	MONTEIRO, JR., Oyrton A.C. et al.; International Journal of Biological Macromolecules; 26:119-128 (1999)	
/RAD/	C8	ROGOVINA, S.Z. et al., Polymer Science, 43(9-10):265-268 (2001)	
/RAD/	C9	RUEL-GARIEPY, E. et al.; International Journal of Pharmaceutics; 203:89-98 (2000)	
/RAD/	C10	SUH, J.K Francis et al.; Biomaterials; 21:2589-2598 (2000)	
/RAD/	C11	SUTO, Shinichi et al.; Journal of Applied Polymer Science; 61:2273-2278 (1996)	

Examiner Signature	/Ruth A. Davis/	Date Considered	10/23/2007
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

12

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Application Number	10/521,524
Filing Date	September 20, 2005
First Named Inventor	Caroline HOEMANN et al.
Art Unit	1651
Examiner Name	To Be Assigned
Attorney Docket Number	701826-056360-US

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Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>3</sup> (if known)			
/RAD/	A4	US-4,185,618	01-29-1980	Corey	
	A5	US-4,391,909	07-05-1983	Lim	
	A6	US-4,394,373	07-19-1983	Malette et al.	
	A7	US-4,424,346	02-03-1984	Hall et al.	
	A8	US-4,474,769	02-10-1984	Smith	
	A9	US-4,647,536	03-03-1987	Mosbach	
	A10	US-4,659,700	04-21-1987	Jackson	
	A11	US-4,731,081	03-15-1988	Tiffany et al.	
	A12	US-4,803,075	02-07-1989	Wallace et al.	
	A13	US-4,956,350	09-11-1990	Mosbey	
	A14	US-4,996,307	02-25-1991	Ito et al.	
	A15	US-4,073,202	12-17-1991	Wallach et al.	
	A16	US-5,126,141	06-30-1990	Henry	
	A17	US-5,266,326	11-30-1993	Barry et al.	
	A18	US-5,368,051	11-29-1994	Dunn et al.	
	A19	US-5,422,116	06-06-1995	Yen et al.	
	A20	US-5,468,787	11-21-1995	Braden et al.	
	A21	US-5,587,175	12-24-1996	Viegas et al.	
	A22	US-5,612,028	03-18-1997	Sackier et al.	
	A23	US-5,618,339	04-08-1997	Ito	
	A24	US-5,655,546	08-12-1997	Halpern	
	A25	US-5,658,593	08-19-1997	Orly et al.	
	A26	US-5,709,854	01-20-1998	Griffith-Cima et al.	
	A27	US-5,723,331	03-03-1998	Tubo et al.	
	A28	US-5,736,372	04-07-1998	Vacanti et al.	
	A29	US-5,749,874	05-12-1998	Schwartz	
	A30	US-5,770,193	06-23-1998	Vacanti et al.	
	A31	US-5,770,417	06-23-1998	Vacanti et al.	
	A32	US-5,773,033	06-30-1998	Cochrum et al.	
	A33	US-5,773,608	06-30-1998	Yen et al.	
	A34	US-5,811,094	09-22-1998	Caplan et al.	
	A35	US-5,837,235	11-17-1998	Mueller et al.	
	A36	US-5,842,477	12-01-1998	Naugnton et al.	
	A37	US-5,855,619	01-05-1999	Caplan et al.	
	A38	US-5,866,415	02-02-1999	Villeneuve	
	A39	US-5,894,070	04-13-1999	Hansson et al.	
	A40	US-5,902,741	05-11-1999	Purchio et al.	
	A41	US-5,902,798	05-11-1999	Gouda et al.	
	A42	US-5,906,934	05-25-1999	Grande et al.	
	A43	US-5,908,784	06-01-1999	Johnstone et al.	

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Filing Date				September 20, 2005	
First Named Inventor				Caroline HOEMANN et al.	
Art Unit				1651	
Examiner Name				To Be Assigned	
Sheet	2	of	12	Attorney Docket Number	701826-056360-US

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		Country Code <sup>2</sup> Number <sup>3</sup> (if known)				
/RAD/	B6	EP 0 298 501 A2	01-11-1980	Asahi Kogaku Kogyo Kabushiki Kaisha		
	B7	EP 0 640 647 A2	03-01-1995	Collagen Corporation		
	B8	EP 1 077 253 A1	02-21-2001	Zen Bio, Inc.		
	B9	WO 95/25549	09-28-1995	Lipomatix Incorporated		
	B10	WO 96/02276	02-01-1996	Gel Sciences, Inc.		
	B11	WO 96/39202	12-12-1996	Osteogenics		
	B12	WO 97/33562	09-18-1997	Laboratories Merck Sharp & Dohme-Chibret SNC		
	B13	WO 98/22114	05-28-1998	Dumex-Alpharma		
	B14	WO 99/04720	02-04-1999	Reprogenesis		
	B15	WO 00/02905	01-20-2000	University of Southern California		
	B16	WO 00/44413	08-03-2000	Genetics Institute, Inc.		
	B17	WO 00/48550	08-24-2000	Sulzer Biologics, Inc.		
	B18	WO 01/36000	05-25-2001	Biosyntech Canada, Inc.		
	B19	WO 01/41822	06-14-2001	Biosyntech Canada, Inc.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/521,524
Sheet	3	of	12	Filing Date	September 20, 2005
				First Named Inventor	Caroline HOEMANN et al.
				Group Art Unit	1651
				Examiner Name	To Be Assigned
				Attorney Docket Number	701826-056360-US

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/RAD/	C12	AERTS et al., <i>Journal of Biomechanics</i> , 28(11):1299-1308 (1995)		
	C13	AIBA, <i>Makromol. Chemie</i> , 194(1):65-75 (1993)		
	C14	ALEXANDER et al., <i>Journal of Zoology – London (A)</i> , 209:405-419 (1986)		
	C15	APPLING et al., <i>FEBS Letters</i> , 250(2):541-544 (1989)		
	C16	ASPDEN et al., <i>European Journal of Pharmaceutical Sciences</i> , 4:23-31 (1996)		
	C17	ASTON et al., <i>Journal of Bone and Joint Surgery</i> , 68-B(1):29-35 (1986)		
	C18	ATESHIAN, <i>Journal of Biomechanical Engineering</i> , 119:81-86 (1997)		
	C19	AUSTIN et al., <i>Science</i> , 212:749-753 (1981)		
	C20	BACK et al., <i>Biochemistry</i> , 18(23):5191-5196 (1979)		
	C21	BALKIN, <i>Neale's Common Foot Disorders: Diagnosis and Management</i> , 22:387-400 (1997)		
	C22	BARTONE et al., <i>Journal of Urology</i> , 140:1134-1137 (1988)		
	C23	BELLOWS et al., <i>Bone and Mineral</i> , 17:15-29 (1992)		
↓	C24	BENNETT et al., <i>Journal of Anatomy</i> , 171:131-138 (1990)		

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/RAD/	C25	BENTLEY et al., <i>Nature</i> , 230:385-388 (1971)
	C26	BERNKOP-SCHNURCH et al., <i>Journal of Pharmaceutical Sciences</i> . 87(4):430-434 (1998)
	C27	BLECHSCHMIDT, <i>Foot and Ankle</i> , 2(5):260-283 (1982)
	C28	BOBIC et al., <i>The Journal of Bone and Joint Surgery</i> , 82-B(2):165-166 (2000)
	C29	BREINAN et al., <i>The Journal of Bone and Joint Surgery</i> , 79-A(10):1439-1451 (1997)
	C30	BREINAN et al., <i>Journal of Orthopaedic Research</i> , 18(5):781-789 (2000)
	C31	GILLQUIST et al., <i>Acta Orthop Scand.</i> , 68(2):186-191 (1997)
	C32	BRITTBURG et al., <i>The New England Journal of Medicine</i> , 331(14):889-895 (1994)
	C33	BRITTBURG et al., <i>Clinical Orthopaedics and Related Research</i> , 326:270-283 (1996)
	C34	BUCKWALTER et al., <i>The Journal of Bone and Joint Surgery</i> , 79-A(4):612-632 (1997)
	C35	BUSCHMANN et al., <i>Journal of Orthopaedic Research</i> , 10(6):745-758 (1992)
	C36	BUSCHMANN et al., <i>Foot and Ankle</i> , 14(7):389-394 (1993)
▼	C37	BUSCHMANN et al., <i>Foot and Ankle</i> , 16(5):254-258 (1995)

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/RAD/	C38	BUTNARIU-EPHRAT et al., <i>Clinical Orthopaedics and Related Research</i> , 330:234-243 (1996)		
	C39	CALVO et al., <i>Colloid and Polymer Science</i> , 275(1):46-53 (1997) (abstract)		
	C40	CAPLAN et al., <i>Clinical Orthopaedics and Related Research</i> , 342:254-269 (1997)		
	C41	CARREÑO-GÓMEZ et al., <i>International Journal of Pharmaceutics</i> , 148:231-240 (1997)		
	C42	CHENITE et al., <i>Carbohydrate Polymers</i> , 00:1-9 (2000)		
	C43	CHESTERMAN et al., <i>The Journal of Bone and Joint Surgery</i> , 50B(1):184-197 (1968)		
	C44	CHILDERS et al., <i>Clinical Orthopaedics and Related Research</i> , 144:114-120 (1979)		
	C45	CHO et al., <i>Biomaterials</i> , 20:2139-2145 (1999)		
	C46	CHU et al., <i>Journal of Biomedical Materials Research</i> , 29:1147-1154 (1995)		
	C47	CHU et al., <i>Clinical Orthopaedics and Related Research</i> , 340:220-229 (1997)		
	C48	CHUNG et al., <i>Calcif Tissue Int.</i> , 51:305-311 (1992)		
	C49	COHEN et al., <i>British Journal of Haematology</i> , 31:45-50 (1975)		
↓	C50	D'AMBROSIA, <i>Orthopedics</i> , 10(1):137-142 (1987)		

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Sheet 6 of 12

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/RAD/	C51	DENUZIERE et al., <i>Biomaterials</i> , 19:1275-1285 (1998)	
	C52	DEPALMA et al., <i>Clinical Orthopaedics and Related Research</i> , 48:229-242 (1966)	
	C53	DILLON et al., <i>J. Biomater. Sci. Polymer Edn.</i> , 9(10):1049-1069 (1998)	
	C54	ELÇİN et al., <i>Neurological Research</i> , 20:648-654 (1998)	
	C55	FRENKEL et al., <i>The Journal of Bone and Joint Surgery</i> , 79-B(5):831-836 (1997)	
	C56	FREED et al., <i>Journal of Biomedical Materials Research</i> , 28:891-899 (1994)	
	C57	FUKAMIZO et al., <i>Biochem. Cell Biol.</i> , 75:687-696 (1997)	
	C58	GRANDE et al., <i>Journal of Orthopaedic Research</i> , 7(2):208-218 (1989)	
	C59	GREEN, <i>Clinical Orthopaedics and Related Research</i> , 124:237-250 (1977)	
	C60	GUO et al., <i>Connective Tissue Research</i> , 19:277-297 (1989)	
	C61	GUPTA et al., <i>The International Journal of Artificial Organs</i> , 16(3):155-163 (1993)	
	C62	HANGODY et al., <i>Knee Surg., Sports Traumatol., Arthrosc.</i> , 5:262-267 (1997)	
▼	C63	HANGODY et al., <i>Foot and Ankle International</i> , 18(10):628-634 (1997)	

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/RAD/	C64	HENDRICKSON et al., <i>Journal of Orthopaedic Research</i> , 12(4):485-497 (1994)		T <sup>2</sup>
	C65	HIGAKI et al., <i>JSME International Journal</i> , 40(4):776-781 (1997)		
	C66	HIRANO et al., <i>Biopolymers</i> , 15:1685-1691 (1976)		
	C67	HOMMINGA et al., <i>Acta Orthop. Scand.</i> , 62(5):415-418 (1991)		
	C68	HUNZIKER et al., <i>The Journal of Bone and Joint Surgery</i> , 78-A(5):721-733 (1996)		
	C69	HYC et al., <i>Cell Transplantation</i> , 6(2):119-124 (1997)		
	C70	ITAY et al., <i>Cartilage Repair by Cultured Chondrocytes</i> , 220:284-303 (1987)		
	C71	JAHSS et al., <i>Foot and Ankle</i> , 13(5):227-232 (1992)		
	C72	JOHNSON, <i>Operative Arthroscopy</i> , Chapter 24, pp.341-360 (1991)		
	C73	JÜRGENSEN et al., <i>The Journal of Bone and Joint Surgery</i> , 79-A(2):185-193 (1997)		
	C74	KANDEL et al., <i>Art. Cells, Blood Subs., and Immob. Biotech.</i> , 23(5):565-577 (1995)		
	C75	KAWAMURA et al., <i>Acta Orthop. Scand.</i> , 69(1):56-62 (1998)		
▼	C76	KER, <i>Journal of Experimental Biology</i> , 199:1501-1508 (1996)		

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Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
/RAD/	C77	KOPP et al., <i>Int. J. Cancer</i> , 60:275-279 (1995)		
	C78	KOYANO et al., <i>J. Biomed. Mater. Res.</i> , 39:486-490 (1998)		
	C79	KUBOTA et al., <i>Polymer Journal</i> , 29(2):123-127 (1997)		
	C80	KUETTNER, <i>Clinical Biochemistry</i> , 25:155-163 (1992)		
	C81	LAHIJI et al., <i>J. Biomed. Mater. Res.</i> , 51:586-595 (2000)		
	C82	LEE et al., <i>Journal of Controlled Release</i> , 51:213-220 (1998)		
	C83	LEE et al., <i>J. Periodontol.</i> , 71(3):410-417 (2000)		
	C84	LEISTIKOW, <i>Seminars in Thrombosis and Hemostasis</i> , 22(3):289-294 (1996)		
	C85	LI, <i>Biotechnol. Appl. Biochem.</i> , 23:269-271 (1996)		
	C86	LU et al., <i>Biomaterials</i> , 20:1937-1944 (1999)		
	C87	MAHOMED et al., <i>Orthopedics</i> , 15(10):1191-1199 (1992)		
	C88	MALETTE et al., <i>The Annals of Thoracic Surgery</i> , 36(1):55-58 (1983)		
▼	C89	MANKIN, <i>The New England Journal of Medicine</i> , pp.1285-1292 (1974)		

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 9 of 12

**Complete if Known**

Application Number	10/521,524
Filing Date	September 20, 2005
First Named Inventor	Caroline HOEMANN et al.
Group Art Unit	1651
Examiner Name	To Be Assigned

Attorney Docket Number

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/RAD/	C90	MATTHEW et al., <i>Journal of Pediatric Surgery</i> , 28(11):1423-1428 (1993)	
	C91	MATTIOLI-BELMONTE et al., <i>Medical and Biological Engineering and Computing</i> , 37:130-134 (1999)	
	C92	MESSNER et al., <i>Acta Orthop. Scand.</i> , 67(5):523-529 (1996)	
	C93	MINAS et al., <i>Articular Cartilage Defects</i> , 20(6):525-538 (1997)	
	C94	MUZZARELLI et al., <i>Biomaterials</i> , 9:247-252 (1988)	
	C95	MUZZARELLI et al., <i>Eur. Chitin Soc.</i> , Ancona (1993)	
	C96	MUZZARELLI et al., <i>Biomaterials</i> , 15(13):1075-1081 (1994)	
	C97	MUZZARELLI et al., <i>Enzyme Microb. Technol.</i> , 17:541-545 (1995)	
	C98	NAMBA et al., <i>The Journal of Bone and Joint Surgery</i> , 80-A(1):4-10 (1998)	
	C99	NARVÁEZ et al., <i>Radiographics</i> , 20(2):333-352 (2000)	
	C100	NEVO et al., <i>Cell Transplantation</i> , 7(1):63-70 (1998)	
	C101	NEWMAN, <i>The American Journal of Sports Medicine</i> , 26(2):309-324 (1998)	
↓	C102	NIXON et al., <i>Journal of Orthopaedic Research</i> , 17(4):475-487 (1999)	

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/RAD/	C103	NOGUCHI et al., <i>Clinical Orthopaedics and Related Research</i> , 302:251-258 (1994)		
	C104	O'DRISCOLL et al., <i>The Journal of Bone and Joint Surgery</i> , 70-A(4):595-606 (1988)		
	C105	O'DRISCOLL et al., <i>The Journal of Bone and Joint Surgery</i> , 76-A(7):1042-1051 (1994)		
	C106	OHYA et al., <i>J. Microencapsulation</i> , 10(1):1-9 (1993)		
	C107	OKAMOTO et al., <i>J. Vet. Med. Sci.</i> , 57(5):851-854 (1995)		
	C108	OUTERBRIDGE et al., <i>The Journal of Bone and Joint Surgery</i> , 77-A(1):65-72 (1995)		
	C109	PALETTA et al., <i>The American Journal of Sports Medicine</i> , 20(6):725-731 (1992)		
	C110	PECHAK et al., <i>Bone</i> , 7:459-472 (1986)		
	C111	PELUSO et al., <i>Biomaterials</i> , 15(15):1215-1220 (1994)		
	C112	PRIDIE, <i>The Journal of Bone and Joint Surgery</i> , 41-B(3):618-619 (1959)		
	C113	RAO et al., <i>Journal of Biomedical Materials Research</i> , 34:21-28 (1997)		
	C114	ROBINSON et al., <i>Calcif Tissue Int.</i> , 46:246-253 (1990)		
▼	C115	RODRIGO et al., <i>Operative Orthopaedics</i> , Chapter 144, pp.2077-2082 (1993)		

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/RAD/	C116	SALL et al., <i>Ann. Ophthalmol.</i> , 19:31-33 (1987)			T <sup>2</sup>
	C117	SAMS et al., <i>Osteoarthritis and Cartilage</i> , 3:47-59 (1995)			
	C118	SCHIPPER et al., <i>Pharmaceutical Research</i> , 14(7):923-929 (1997)			
	C119	SCHWARZ et al., <i>British Journal of Rheumatology</i> , 37(1):21-26 (1998)			
	C120	SECHRIEST et al., <i>J. Biomed. Mater. Res.</i> , 49(4):534-541 (2000)			
	C121	SELLERS et al., <i>The Journal of Bone and Joint Surgery</i> , 79-A(10):1452-1463 (1997)			
	C122	SELLERS et al., <i>The Journal of Bone and Joint Surgery</i> , 82-A(2):151-160 (2000)			
	C123	SENOO et al., ACCESSION NO. 25365 (1990) (abstract)			
	C124	SHEPARD et al., <i>XVIIth FECTS Meeting Patras</i> , Greece, Abstract Form (July 1-5, 2000)			
	C125	SHIGEMASA et al., <i>Biotechnology and Genetic Engineering Reviews</i> , 13:383-420 (1995)			
	C126	SOULHAT et al., <i>Journal of Biomechanical Engineering</i> , 121:340-347 (1999)			
	C127	SPECCHIA et al., <i>Bulletin for Hospital for Joint Diseases</i> , 54(4):230-235 (1996)			
✓	C128	STEADMAN et al., <i>J. Sports Traumatol. Rel. Res.</i> , 20(2):61-70 (1998)			

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/RAD/	C129	STONE et al., <i>British Journal of Plastic Surgery</i> , 53:601-606 (2000)		
	C130	SUH et al., <i>Biomaterials</i> , 21:2589-2597 (2000)		
	C131	TERBOJEVICH et al., <i>Carbohydrate Polymers</i> , 29(1):63-68 (1996)		
	C132	UENO et al., <i>Biomaterials</i> , 20:1407-1414 (1999)		
	C133	VAN SCHIE et al., <i>Diabetes Care</i> , 23(5):634-638 (2000)		
	C134	VASIOS et al., <i>45<sup>th</sup> Annual Meeting</i> , Orthopaedic Research Society, Anaheim, California, 711 (February 1-4, 1999)		
	C135	WAKITANI et al., <i>The Journal of Bone and Joint Surgery</i> , 71-B(1):74-80 (1989)		
	C136	WAKITANI et al., <i>The Journal of Bone and Joint Surgery</i> , 76-A(4):579-592 (1994)		
	C137	WEI et al., <i>Journal of Biomedical Materials Research</i> , 34:63-72 (1997)		
	C138	YAGI et al., <i>Biol. Pharm. Bull.</i> , 20(12):1290-1294 (1997)		
	C139	ZIELINSKI et al., <i>Biomaterials</i> , 15(13):1049-1056 (1994)		
	C140	ZOPPOU et al., <i>Bulletin of Mathematical Biology</i> , 59(5):953-973 (1997)		
↓	C141	CHENITE et al., <i>Biomaterials</i> , 21:2155-2161 (2000)		

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